Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000054498		FOR FURTHER A	ACTION	See Form PCT/IPEA/416				
International application No.		International filing da	ate (day/month/year)	Priority date (day/month/year)				
PCT/EP2004/004344		23.04.200		30.04.2003				
	International Patent Classification (IPC) or national classification and IPC							
and the second of the second o								
Applicant BASF AKTIENGESELLSCHAFT								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REP	ORT consists of a total of	5	sheets, including	this cover sheet.				
3. This repo	rt is also accompanied by A	NNEXES, comprising:						
a. 🖂	(sent to the applicant and	to the International Bi	ureau) a total of 1	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
ъ. 🔲		Bureau only) a total of	(indicate type and number	of electronic carrier(s))				
-				, containing a sequence listing and/or tables				
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This repo	rt contains indications relati	ng to the following iter	ns:					
⊠ в	ox No. I Basis of the	report						
В	ox No. II Priority							
В	ox No. III Non-establi	shment of opinion with	regard to novelty, inventi	ve step and industrial applicability				
│ □ в	ox No. IV Lack of unit	ty of invention						
⊠ в 	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
В	ox No. VI Certain doc	uments cited						
🗌 в	ox No. VII Certain defe	ects in the international	application					
□ В	ox No. VIII Certain obs	ervations on the interna	ational application					
Date of submission of the demand			Date of completion of thi	s report				
Name and mailing address of the IPEA/EP			Authorized officer	-				
Facsimile No.			Telephone No.					

International application No.

PCT/EP2004/004344

Box	No. I		Basis of the report		
1.			to the language, this report is based on the internation der this item.	nal application in the language in	which it was filed, unless otherwise
		which	eport is based on translations from the original language is the language of a translation furnished for the purp international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/	oses of:	·
2.	recei	iving O report): the im	I to the elements of the international application, this ffice in response to an invitation under Article 14 and ternational application as originally filed/furnished escription:		
		pages		<u>.</u>	as originally filed/furnished
		pages	*	received by this Authority on	
		pages	*	received by this Authority on	
	\boxtimes	the cla	aims:		
		nos.			as originally filed/furnished
		nos.*		as amended (togethe	r with any statement) under Article 19 27.01.2005 with the
		nos.*	1-9	received by this Authority on	
		nos.*		received by this Authority on	
		the dr	awings:		
		sheets	3		as originally filed/furnished
		sheets	*	received by this Authority on	
		sheets	*	received by this Authority on	
		a sequ	nence listing and/or any related table(s) – see Supplem	ental Box Relating to Sequence L	isting.
3.		The a	mendments have resulted in the cancellation of:		
			the description, pages		
			the claims, nos.		
			the drawings, sheets/figs		
			the sequence listing (specify):		
			any table(s) related to sequence listing (specify):		
4.			report has been established as if (some of) the amend have been considered to go beyond the disclosure as file.		
			the description, pages		
			the claims, nos.		
			the drawings, sheets/figs		
			the sequence listing (specify):		
			any table(s) related to sequence listing (specify):		
*	If ite	m 4 ap	plies, some or all of those sheets may be marked "supe	erseded."	

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Box No. II Priority
1. This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2. This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

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Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement			
	Novelty (N)	Claims	1-9	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-9	NO
	Industrial applicability (IA)	Claims	1-9	YES
		Claims		NO
1				

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: US-A-5 852 219 (HOFEN WILLI ET AL)
22 December 1998 (1998-12-22)

The current application does not meet the requirements of PCT Article 33(1) for the following reasons:

1.1 D1 (closest prior art; claims 1, 7, 8 and 12; example 1; table 2) discloses a catalyst, during the production of which tungstic acid is dissolved using an ammoniacal solution and CsOH is then added. The solution is then applied to an aluminium oxide support. The solution has a pH of 8-14. The solution contains both alkali tungstate and ammonia from the neutralisation of the tungstic acid. The catalyst is used to produce methyl mercaptan by reacting H₂S and MeOH in a molar ratio of 1.5.

The catalyst obtained according to example 1 of D1 has a pH of 9.9 (determined using the method

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

indicated in the current application), as shown by the applicant in the appended test report.

Independent claims 1 (product) and 8 (method) are thus novel over D1.

The examples of the application show an effect linked to pH for potassium tungstate. However, each example uses different reagents (ammonium phosphate, ammonium sulphate, ammonium sulphide), and therefore no direct comparison is possible.

Consequently, the subject matter of at least claims 1 and 8 does not involve an inventive step (PCT Article 33(3)).

1.2 Dependent claims 2-7 and 9 do not appear to contain any additional features which, in combination with the features of any claim to which they refer back, meet the PCT requirements for novelty and inventive step, since the additional features defined therein are either known from the prior art (see above) or are within the competence of a person skilled in the art wishing to develop alternative catalysts or methods of production.